



(12) **United States Patent**
Sciammarella

(10) **Patent No.:** **US 6,281,940 B1**
(45) **Date of Patent:** **Aug. 28, 2001**

(54) **DISPLAY OF PREVIEWED CHANNELS WITH ROTATION OF MULTIPLE PREVIEWED CHANNELS ALONG AN ARC**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/283,369**

(22) Filed: **Mar. 31, 1999**

(51) **Int. Cl.**⁷ **H04N 5/445**

(52) **U.S. Cl.** **348/564; 348/569; 725/38; 725/56**

(58) **Field of Search** 348/564, 563, 348/565, 569, 906; 725/39, 40, 41, 53, 56, 37, 38; H04N 58/445, 5/45

(56) **References Cited**

U.S. PATENT DOCUMENTS

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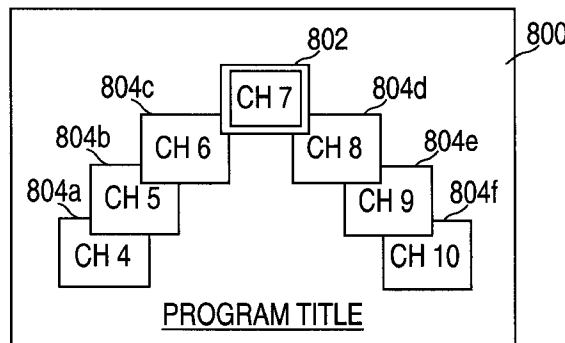
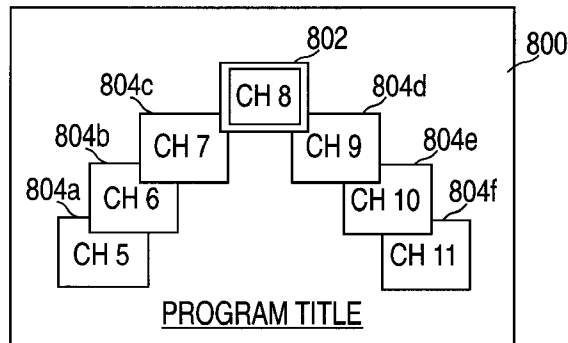
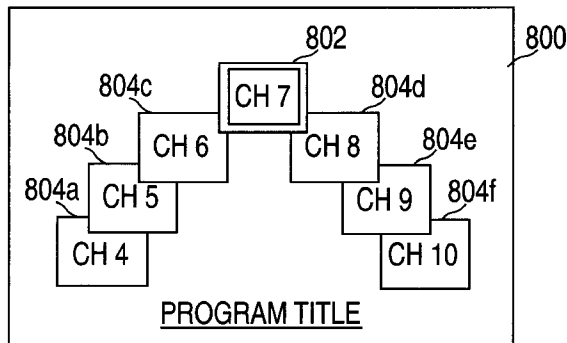
Primary Examiner—Sherrie Hsia

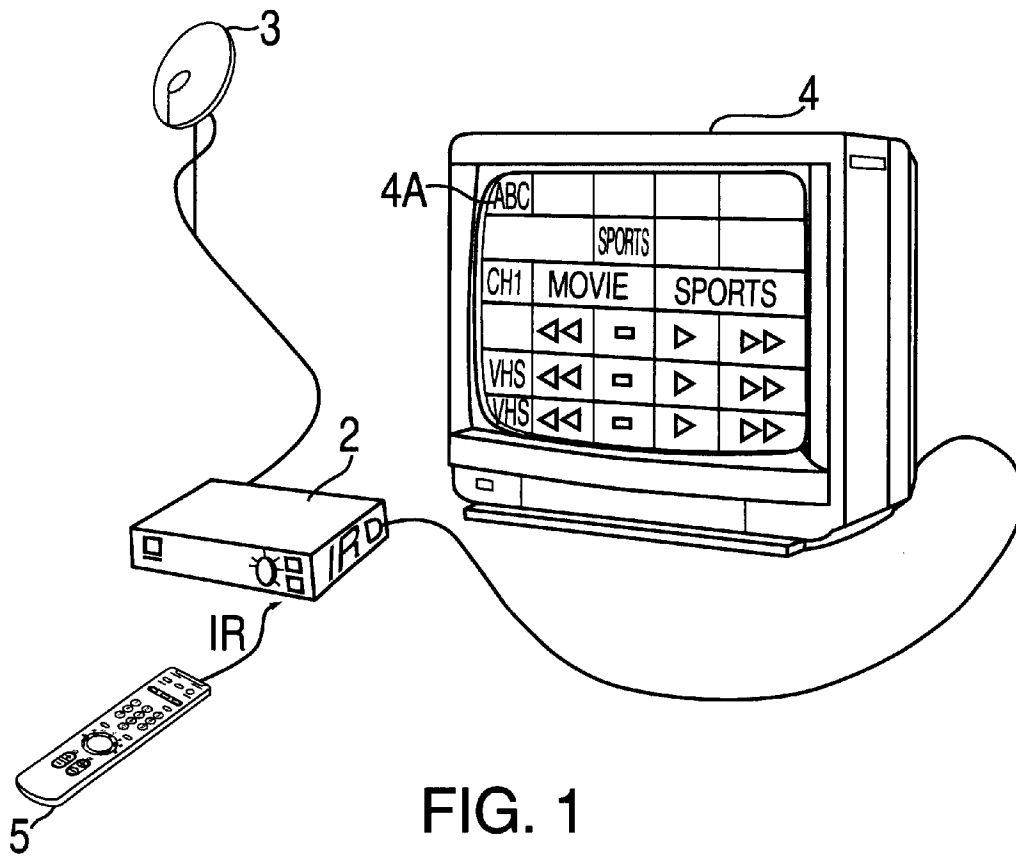
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(57) **ABSTRACT**

Information corresponding to previewed channels is displayed using a sequential arrangement having a main channel location and several remaining channel locations. A currently previewed channel resides in the main channel location. The channels move along the sequential arrangement and into the main channel location for previewing. An arc shaped arrangement having the main channel location at an intermediate point allows channels to progress from one side of the arc, then into the main channel location for previewing, then to the other side of the arc. A jog dial can be rotated to cause the previewed channels to rotate along the arc. Thus, the user can cycle through available channels or a subset of channels by merely holding the jog dial in a given position.

20 Claims, 8 Drawing Sheets





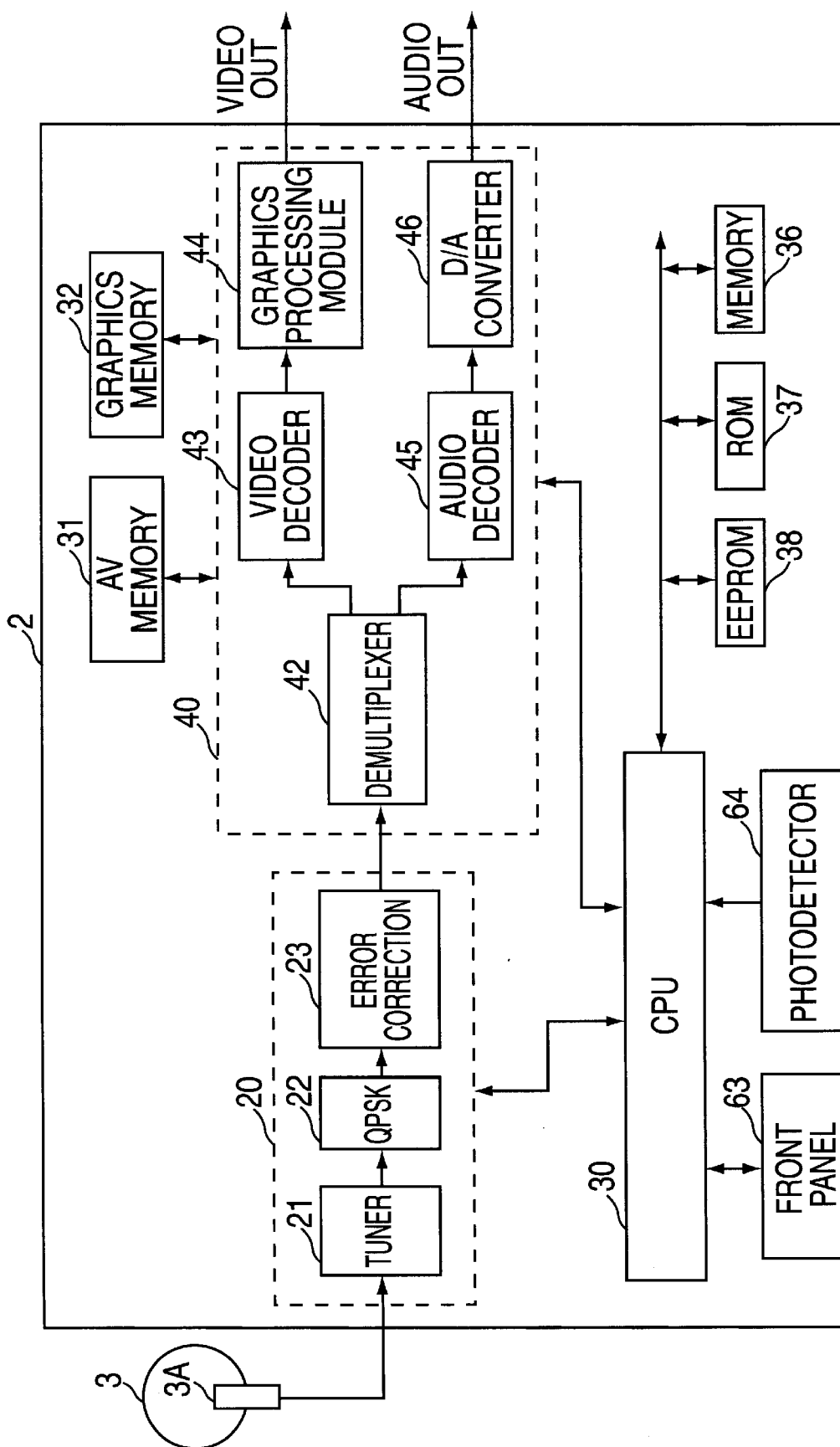


FIG. 2

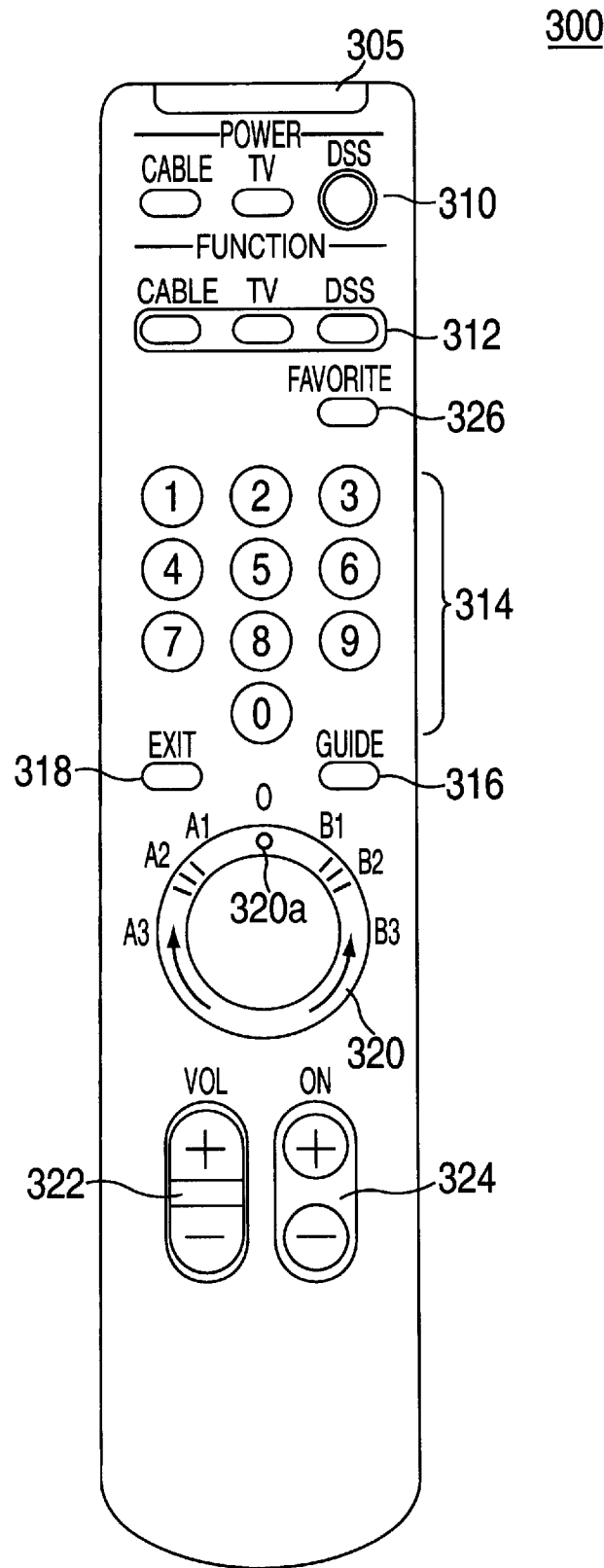


FIG. 3

DATA OF PROGRAM GUIDE

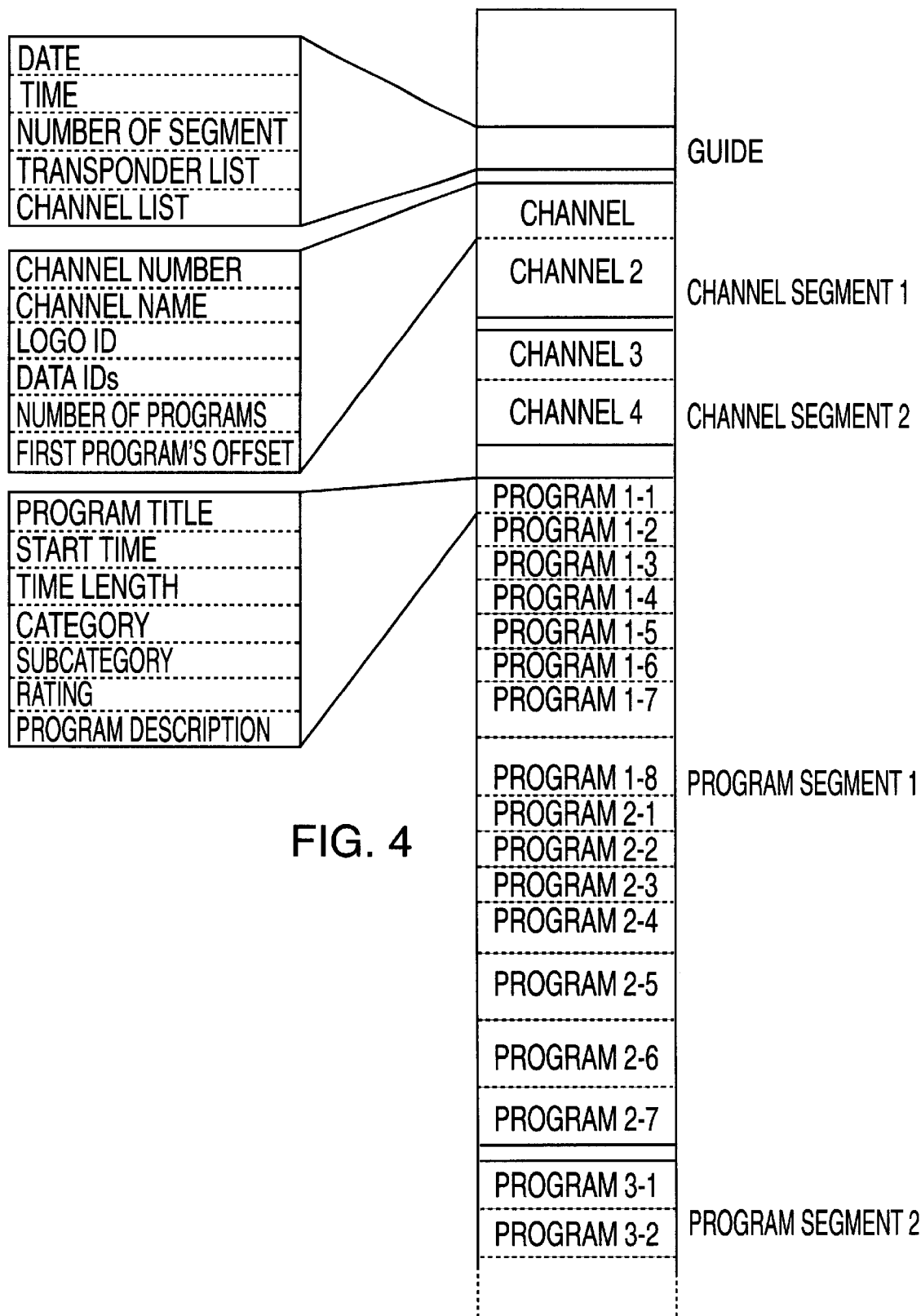


FIG. 4

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